OK

Depth 6	Contents 7	Reference to last Measurement 8

I&t & Part bill SBRNO= 31/16-17 29/6/16

Recorded on:- 25.05.2016 Work Code:- 006-16-000012

M. A. R. 57 (Rule 116)

Measurement Book No. B

Work order No:- BBMP/EE/BTP/W.O/349/2015-2016 Date:- 30/03/2016 Letter of Acceptance Date: 26/03/16

264612

Serial No. .....

Name of Work ..... Maintenance of existing borewell and laying of pipeline in ward No:-06. Byatarayanapura Sub division.

Name of Contractor of nature of Agency ..... From P. Mohan Raju, Geddalahalli, Hennur Bagalur main Road, Bangalore East-77

Date of commencement of work ..... Est cost:- 2500/-

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	① Lifting of Submersible pump set as per specification and direction of engineer in charge of the work.						BR 442 & 31-8-16
	(As per log book enclosed)	32	-	-	-	32.00 Nos	Rs 27,200.00
					CRS.	850.00	
	② Transportation of pumping machineries etc as per specifications & directions of the engineer in charge of the work.						
	(As per log book enclosed)	32	-	-	-	32.00 Nos	Rs 28,800.00
					CRS.	900.00	
	③ Labour charges (over hauling) etc as per specifications & directions of the						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	engineer in charge of the work. (As per logbook enclosed)	12	-	-	- @RS. 550.00	12.00 Nos Rs 6600.00	
	(4) A) Repairs to motor: Rewinding of Sub-mersible pump Sets with Copper insulation wire of suitable gauge as per ISI Specification with guarantee of 6 months. PRICED SR (2012-2013) etc as Per Specifications & directions of the engineer in charge of the work. (As per log book enclosed)	14	-	-	- @RS. 4787.00	14.00 Nos Rs 19148.00	67018- 67018-
	(5) 15 HP etc as per Specifications & directions of the engineer in charge of the work. As per log book enclosed	28	-	-	- @RS 5225.00	28.00 Nos Rs 41800.00	146300 146300-

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Num
1	2	3
	(6) Starter (with one year of the engineer enchar (As per log book enclosed)	14
	(7) Rotor (with one year gu The engineer in charge (As per log book enclosed)	28
	(8) Pump bowls etc as per Spe The work.	308

	Contents	Reference to last Measurement
h	7	8
	12.00 Nos @ Rs 6600.00	
	RS. 550.00	
	ersible pump sets with	
	use of per ISI Specifi	
	ED SR (2012-2013) etc as	
	er in charge of the work.	
	14.00 Nos @ Rs 19148.00	67018
	RS. 4787.00	67018 1
	of the engineer in charge	146300
	28.00 Nos @ Rs 41800.00	146300
	@RS 5225.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 264613

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	⑥ Starter (with one year Guarantee) check per Specifications & directions of the engineer incharge of the work. (As per log book enclosed)	14	-	-	-	14.00 Nos @ Rs. 5050.00	70700 Rs 20200.00 70700
	⑦ Rotor (with one year Guarantee) etc as per Specifications & directions of the engineer in charge of the work. (As per log book enclosed)	28	-	-	-	28.00 Nos @ Rs. 4700.00	131600 Rs 37600.00 131600
	⑧ Pump bowls etc as per Specifications & directions of the engineer in charge of the work.	302	-	-	-	302.00 Nos @ Rs. 620.00	187240 187240 Rs 187240.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(9) Intermediate piece (I.P) with IP leaded bronze bush etc as per Specifications & directions of the engineer in charge of the work. (As per log book enclosed)	10	-	-	-	10.00 Nos @ Rs. 450.00	Rs 4500.00
	(10) upper flange etc as per Specifications & directions of the engineer in charge of the work. (As per log book enclosed)	11	-	-	-	11.00 Nos @ Rs. 350.00	Rs 3850.00
	(11) Lower Housing etc as per Specifications & directions of the engineer in charge of the work. (As per log book enclosed)	11	-	-	-	11.00 Nos @ Rs. 650.00	Rs 7150.00
	(12) Gunboon Housing etc as per Specifications & directions of the engineer						

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Serial No. .....
Name of Work ..... From...
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number
1	2	3
	incharge of the work. (As per log book enclosed)	11
	(13) Thrust bearing block assemb... as per Specifications & directi... (As per log book enclosed)	11
	(14) c) Replacement of pump parts ... erisible pump sets requir... tions & directions of the engine...	11

T BOOK

Dimensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
ded bronze bush etc as per specifi			
r in charge of the work.			
-	-	10.00 Nos @Rs. 450.00	Rs 4500.00
s & directions of the engineer in			
-	-	11.00 Nos @Rs. 350.00	Rs 3850.00
tions & directions of the engineer			
-	-	11.00 Nos @Rs. 650.00	Rs 7150.00
ctions & directions of the engineer			

M. A. R. 57 (Rule 116)
Measurement Book

No. B 264614

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	incharge of the work (As per log book enclosed)	11	-	-	-	11.00 Nos @Rs. 475.00	Rs 5225.00
(13)	Thrust bearing block assembly Complete with segment bearing pad etc as per specifications & directions of the engineer in charge of the work. (As per log book enclosed)	11	-	-	-	11.00 Nos @Rs. 1150.00	Rs 12650.00
(14)	c) Replacement of pump parts: The following consist Components of Sub mersible pump sets requiring replacement. Oil Seal etc as per specifications & directions of the engineer in charge of the work.	11	-	-	-	11.00 Nos @Rs 125.00	Rs 1375.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(15) Oil Seal Steel Bush etc as per Specifications & directions of the engineer in charge of the work. (As per log book Enclosed)	11	-	-	-	11.00 Nos @ Rs. 150.00	Rs 1650.00
	(16) Guide vane etc as per Specifications & directions of the engineer in charge of the work. (As per log book Enclosed)	149	-	-	-	149.00 Nos @ Rs. 155.00	23095=00 Rs ~~7595.00~~
	(17) Impeller Shell moulded with aluminium (Bronze) etc as per Specifications & directions of the engineer in charge of the work. (As per log book Enclosed)	11	-	-	-	11.00 Nos @ Rs. 425.00	Rs ~~4625.00~~ 4675
	(18) Discharge outlet (D.O) Bearing D.O Steel Bush etc as per Specifications & directions of the engineer in charge of the work.	16	-	-	-	16.00 Nos @ Rs. 445.00	Rs 7120.00

Serial No. .....
Name of Work ..... F
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Num
1	2	3
	(19) D.O Bearing etc as per Specifications & directions of the engineer in charge of the work. (As per log book Enclosed)	16
	(20) Steel bush etc as per Specifications & directions of the engineer in charge of the work. (As per log book Enclosed)	81
	(21) Allen Screw etc as per Specifications & directions of the engineer in charge of the work. (As per log book Enclosed)	56
	(22) Pump Shaft made out of S	

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Depth 6	Contents 7	Reference to last Measurement 8
...ons & directions of the engineer		
-	11.00 Nos @ Rs. 150.00	Rs 1650.00
...ctions of the engineer in		
-	149.00 Nos @ Rs. 155.00	23095=00 Rs 7595.00
...rum Bronze) etc as per		
...er in charge of the work.		
-	11.00 Nos @ Rs. 425.00	Rs 4625.00 4675
...Bush etc as per Specifications		
...f the work.		
-	16.00 Nos @ Rs. 445.00	Rs 7120.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 264615

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
(19)	D.O Bearing etc as per Specifications & directions of the engineer in charge of the work. (As per log book enclosed)	16	-	-	-	16.00 Nos @ Rs. 250.00	Rs 4000.00
(20)	Steel bush etc as per Specifications & directions of the engineer in charge of the work. (As per logbook enclosed)	81	-	-	-	81.00 Nos @ Rs. 130.00	Rs 10530.00
(21)	Allen Screw etc as per Specifications & directions of the engineer in charge of the work (As per log book enclosed)	56	-	-	-	56.00 Nos @ Rs. 20.00	Rs 1120.00
(22)	Pump Shaft made out of Stainless Steel Centreless ground with key way						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(34) Stud and nuts etc as per Specifications & directions of the engineer in charge of the work. (As per log book enclosed)	150.00	-	-	-	150.00 Nos @ Rs 50.00	Rs 7500.00
	(35) Bearing (Gun metal) Centrifugal) Cast Aluminium Bronze. Bearing Bush etc as per Specifications & directions of the engineer in charge of the work. (As per log book enclosed)	10	-	-	-	10.00 Nos @ Rs 375.00	Rs 3750.00
	(36) Circlips etc as per Specifications & directions of the engineer in charge of the work. (As per log book enclosed)	25	-	-	-	25.00 Nos @ Rs. 50.00	Rs 1250.00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	(37) motor Base with pi... in charge of the ... (As per log book enclosed)
	(38) Supply and delivery ... Atolanta/ calamell ... bore well Comprising ... Coupled by means of ... Per Specifications & ... (As per log book enclosed)

OK

Depth 6	Contents 7	Reference to last Measurement 8
...ns & directions of the engineer		
-	150.00 Nos	Rs 4,500.00
@Rs 50.00		
Cast Aluminium Bronze.		
...ns & directions of the engi		
-	10.00 Nos	Rs 3750.00
@Rs 375.00		
directions of the engineer		
-	25.00 Nos	Rs 1250.00
@Rs. 50.00		

M. A. R. 57 (Rule 116)
Measurement Book

No. B 264618

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
(37)	motor Base with pin etc as per Specifications & directions of the engineer in charge of the work. (As per log book enclosed)	6	-	-	-	6.00 Nos @Rs. 450.00	Rs 2700.00
(38)	Supply and delivery at site brand new 1500rpm/immersed/Lubi/Sabmersible Atolantas/ calamell/ make Suitable for vertical installation in 150mm dia bore well Comprising of Single Stage or multistage CF pump close Coupled by means of Stainless Steel Coupling to Suitable Hp etc as Per Specifications & directions of the engineer in charge of the work. (As per log book enclosed)	2	-	-	-	2.00 NO @Rs 70,000.00	Rs 1,40,000.00

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28/7

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(39) Supplying & delivery at site brand new/ Eshen/ Lotus Sunshine/ Adarsh GIK Controls best indigenous make Combine energy meter - Cum-Control panel board unit of size 1200x 600x300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph. 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs etc as per specifications. (As per log book enclosed)	3	-	-	-	3.00 NO @ RS. 14800.00	44400 / 44400
	(40) Fabricating supplying and mounting ms box of 16 SWG suitable for floor/ wall mounting fully weather proof with provision for better hear dessipation providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps						

Sec V No. 28/7

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Serial No. .....
Name of Work ..... From
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number
1	2	3
	with necessary cable entry pi of red oxide primer & paint -lled metal paint etc as per sp (As per log book enclosed)	1
(41)	Supplying and drawing 3 Cable manufactured with el Conductor Confirming to tab PVC insulation and sheathed etc as per specifications & works.	

BOOK

ns		Contents	Reference to last Measurement
adth 5	Depth 6	7	8
/ Exsen/Lotus Sunshine8/Adarsh Combine energy meter - Cum- 00x 600x300 mm minimum nd water proof the unit shall for operation on 3ph. 50Hz, looded latch locking with,			
-	-	3.00 NO @RS. 14800.00	44400 ~~₹44,800.00~~ 44400
ms box of IGSWG suitable r proof with provision for hinged front Cover, equipped nts, with suitable size clamps			

M. A. R. 57 (Rule 116)
Measurement Book

No. B 264619

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	with necessary cable entry pipe with gland box should be finished 2 coats of red oxide primmer paint & finaly finished with approved Colour enamelled metal paint etc as per specifications. (As per log book enclosed)	1	1100.00	20.00	-	22000.00 Sqcm @RS 0.34	₹ 7480.00
(A)	Supplying and drawing 3 Core flat pvc sheathed submersible pump Cable manufactured with electrolytic grade copper with flexible copper Conductor Confirming to table 3 class 5 of IS:8130-1984 and virgin grade pvc insulation and sheathed suitable for working voltage upto 1100volts etc as per specifications & directions of the engineer in charge of the work.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(As per log book enclosed)	1×2×3	30.00	-	-	180.00	
		1×2×1	5.00	-	-	10.00	
						190.00 mtrs @ Rs. 185.00	35150.00
(42)	Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark (50mm Gate wheel valve) etc as per Specifications.						
	(As per log book enclosed)	26	-	-	-	26.00 Nos @ Rs. 1696.00	44096.00
(43)	Providing and fixing of 50mm GI bend to motor etc as per Specifications & directions of the engineer in charge of the work.						
	(As per log book enclosed)	16	-	-	-	16.00 Nos @ Rs. 232.14	3714.24

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
(44)	Providing and fixing of s directions of the enginee (As per log book enclosed)	
(45)	Providing and fixing of tions & directions of the (As per log book enclosed)	
(46)	Earth work excavation linch and electrical above in width, in	

BOOK

s		Contents	Reference to last Measurement
adth 5	Depth 6	7	8
	-	180.00	
	-	10.00	
		190.00 nos @ Rs 35150.00	
		CRS. 185.00	
		st non-return valve of size	
		connections with ISI mark	
		Specifications.	
-	-	26.00 nos @ Rs 44096.00	
		CRS. 1696.00	
		and to motor etcas per specifica	
		harge of the work.	
-	-	16.00 nos @ Rs 3714.24	
		CRS. 232.14	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

264620

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
(44)	Providing and fixing of 50 mm GI nipple to motor etcas per specifications & directions of the engineer in charge of the work. (As per log book enclosed)	15	-	-	-	15.00 nos @ Rs 1650.00 CRS 110.00	
(45)	Providing and fixing of 50 mm GI union to the motor etcas per specifications & directions of the engineer in charge of the work. (As per log book enclosed)	25	-	-	-	25.00 nos @ Rs 5750.00 CRS. 230.00	
(46)	Earth work excavation for foundation of buildings, water supply, Sanitary, Mech and electrical Conduits, either in pits or in trenches 1.5 mm & above in width, in hard soil not exceeding 1.5 mm in depth in						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	-cluding dressing the bottom and sides of pits and trenches etc as per Specifications & directions of the engineer in charge of the work.						
	Quantity vide, pre-measurement entered in this and Page no of:- 26/6/14:- 41.44 m³ & 11603.20 @Rs. 280.00						
(47)	Providing and installing at site of work 63mm (0.062) pvc pipes of 6 kg/cm² including cost of pipes and specials and labour including lowering in to trenches, laying true to line, level and perfect linking of joint leak proof including jointing of approved type with all labours & lift charges						

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Serial No. .....
Name of Work ..... From
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number
1	2	3
	etc as per Specifications &	
	Quantity vide, pre-mea	
	in this and Page	
(48)	Refilling available earth exceeding 20 Cms in dep after watering with lead	
	Quanti	

NT BOOK

Dimensions			Contents	Reference to last Measurement
	Breadth 5	Depth 6	7	8

and sides of pits and trenches
rections of the engineer in

Measurement are recorded
of:- 264GTH:- 41.44m³ @ Rs 11603.20
@ Rs. 280.00

t site of work 63mm (0.062)
ding cost of pipes and Specials
ring in to trenches, laying true
linking at joint leak proof
d type with all labours & lift charges

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	etc as per Specifications & directions of the engineer in charge of the work Quantity vide, pre-measurement are recorded in this MB & Page No of:- 264GTH :- @ Rs. 360.00					128.00 mtrs	Rs 46080.00
	(48) Refilling available earth around pipe lines cables in layers not exceeding 20 Cm in deep, compacting each deposited by ramming after watering with lead up to 50m. etc as per Specifications. Quantity vide item No: (46) 41.44m³ @ Rs. 70.17						Rs 2907.84

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(49) KSRB 13.6.3-6: Providing and fixing in position brass gate valve with CI wheel of approved quality (Screwed end) 50mm nominal bore including cost of all materials, labour and Hire of equipments with all leads complete as per specifications. (As per log book enclosed)	15	-	-	-	15.00 Nos @ Rs 2100.00	31 500 Rs 10500.00
	(60) Threading of GI pipes 50 mm Dia etc as per specifications & directions of the engineer in charge of the work.	438	-	-	-	438.00 Mtrs @ Rs. 20.95	Rs 9176.10
	AE 25/6/2016	Cash for Mistry	Total bill			Amount Rs.	12,30,555=00
		25/6/2016					

Serial No. .....
Name of Work .....
Name of Contractor of nature of Ag
Date of commencement of work ...

Date	Full description, etc, of w
1	2
	CERTIFICATE:- ① Certified that th ② Certified That th

ಸಹಾಯಕ ಅಭಿಯಂ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ದ್ಯಾವರಾಯನಪುರ
AE

	Contents	Reference to last Measurement
	7	8
	n position brass gate valve (Screwed end) 50mm nominal bour and Hom of e as per Specification.	
-	15.00 Nos @ Rs 2100.00	31 500 Rs 10500.00
	te as per Specification chorge of the work.	
-	438.00 Nos, @ Rs. 20.95	9176.10
	mount Rs.	12,30,555=00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

264622

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CERTIFICATE:- ① Certified that the Part of work done Satisfactorily, Completed. - ② Certified that the, there is no issue of departmental materials to Contractor. ಸಹಾಯಕ ಅಭಿಯಂತರರು ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ-ವಿಭಾಗ AE. 25/06/2016 Assistant Executive Engineer Byatarayanapura Sub Division B.B.M.P. Bangalore 25/6/2016						

BRNO. 442 | 31-8-16.

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
						12.30,555-00	
	ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ 12.30,555-00					IT - 10306-00	
	ಗಳಕ್ಕೆ ಮಾಸ್ತು ಮಾಡಿದೆ: ಇದರಲ್ಲಿ ರೂ 62865-00					VAT - 41222-00	
	ಹೊರಾಗಳೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು					CCH - 10306-00	
	ರೂ 11.67.690-00					CBF - 1031-00	
	ಚೆಕ್ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ					~~Security~~	
						Add 62865-00	
						Cheque 11.67,690-00	

ತಾಂತ್ರಿಕ ಪರಿಶೀಲಕರು
ವ್ಯಾಪಾರಾಯುಕ್ತರ ವಿಭಾಗ
ಬೃ ಬೆ ಮ ಪ

ಕಾ ನಿ ಅ
ವ್ಯಾಪಾರ ಮಹಾಪ್ರದೇಶ ೨
ಬೃ ಬ ಮ ಪ

28/11/16

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2